

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	Examiner:
RICHARD A. JONES	:	Lin Ye
Serial No. 09/339,430	:	
Filed: June 24, 1999	:	Art Unit 2612
For: REMOTE CAMERA POSITIONER	:	

Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

SUMMARY OF INTERVIEW

Dear Sir:

Applicant's attorney thanks the Examiner for a telephonic interview kindly granted on Friday, March 18, 2005. During the course of that interview, Applicant and the Examiner came to agreement that, by amendment of Claim 17 as below, the pending rejection of that claim on the basis of the United States patent of Ackles (Serial No. 6,024,145 for "Articulated Boom and Head For Manipulating Objects Under Water") is overcome.

During the interview, Applicant's attorney pointed to language of the amended claim, particularly with regard to limitations set forth in subparagraphs "c" and "d", that distinguishes the device of the pending application (especially as illustrated in Figure 2 of the application) from the apparatus illustrated in Figure 19 of Ackles upon which the pending

rejection is based. This new claim language makes it clear that the shaft of the first positioner is directly coupled to a boom so that the outer housing of the first positioner rotates to thereby cause the bracket fixed to the outer housing to rotate through a pan angle while the shaft of the second positioner (which is fixed to the opposite end of the bracket) is directly coupled to the camera so that the camera rotates with the shaft of the second positioner through a tilt angle. The Ackles reference does not show or suggest this structure or any any equivalent structure.

LANGUAGE OF AMENDED CLAIM AGREED TO OVERCOME PENDING REJECTION

17. (CURRENTLY AMENDED) Apparatus for remotely tilting and panning a camera head fixed to a boom, said apparatus comprising, in combination:

a) a first and a second pressure-actuated positioner, each of said positioners including an elongated, output shaft rotatable with respect to an outer housing;

b) said shafts of said positioners being vertically and orthogonally disposed with respect to one another by means of a bracket having one end fixed to the outer housing of said first positioner and an opposed end fixed to the outer housing of said second positioner so that said output shafts define orthogonal tilt and pan axes;


~~c) means for coupling said camera head to one of said positioners so that the tilt of said camera head is responsive to the angular rotation of the output shaft of said positioner; and~~

~~d) means for directly coupling said output shaft of said first other positioner to said boom so that said outer housing of said positioner and bracket rotate through a pan angle in response to of said camera head is responsive to rotation of said output shaft of said first positioner relative to said outer housing; and of said other positioner~~

d) means for directly coupling said output shaft

of said second positioner to said camera head so that said camera head rotates through a tilt angle in response to rotation of said output shaft of said second positioner and rotates through said pan angle in response to rotation of said outer housing of said first positioner.

Respectfully submitted,

  
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